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PROPAGATING SHOCKS IN THE CORONA

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We have analyzed high resolution observations performed with the Decametre spectrograph and the multichannel receiver at Nançay, in the range of 25-75 MHz. 60 type II bursts have been selected. In this frequency range, type II events are generally associated with other radio emissions such as storms of type (III - U - I)bursts ; they are preceded or followed by groups of U-bursts. One third of type II events show a non-uniform frequency drift, usually a steep decrease followed by an abrupt increase. This phenomenon can be explained by the propagation of an extended disturbance through the ambient corona when the density gradient is enhanced. An empirical coronal model is proposed to interpret these observations. The observations at fixed frequency of type II bursts including fundamental and harmonic components are analyzed. It is shown that the spectrum of the intensity fluctuations differs with the fundamental and the harmonic components. The origin of these differences are discussed.